

SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 3/15/2004 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date 12/16/05 Serial # 10/786,027 Priority Application Date 03/27/03Your Name M. Lewis Examiner # _____AU 2822 Phone 272-1838 Room 57A30In what format would you like your results? Paper is the default. PAPER DISK EMAIL

If submitting more than one search, please prioritize in order of need.

Need before
12/23

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: _____

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. _____

What types of references would you like? Please checkmark:Primary Refs Nonpatent Literature Other _____
Secondary Refs Foreign Patents _____
Teaching Refs _____What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 3-9

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Problem: See pages 1-3

Solution: 11 384

Staff Use Only
Prepared by Michael LewisReleaser Phone: 571-272-2663Searcher Location: STIC-EIC2800, JEF-4B68Date Searcher Picked Up: 12/16/05Date Completed: 12/22/05Searcher Prep/Rev Time: 172Online Time: 448.77

Type of Search

MATERIALS (a) _____

Bibliographic

Litigation _____

Fulltext

Patent Family _____

Other _____

Vendor

NYPN BNA

Questel/Orbit _____

Lexis-Nexis _____

WWW/Internet _____

Other _____

12/22/05

10/786027

(FILE 'HOME' ENTERED AT 16:25:20 ON 22 DEC 2005)

FILE 'STNGUIDE' ENTERED AT 16:25:30 ON 22 DEC 2005

FILE 'CAPLUS' ENTERED AT 16:27:10 ON 22 DEC 2005

L1 709492 SEA ABB=ON PLU=ON SEMICONDUCTOR#### OR SEMI CONDUCTOR#### OR
WAFER#### OR IC OR CHIP OR LSI OR INTEGRATED CIRCUIT

L2 61959 SEA ABB=ON PLU=ON (WIRE OR WIRING OR LEAD OR LINE) (3A) (LAYER#
OR OVERLAYER### OR OVER LAYER### OR MULTILAYER##### OR
MULTI LAYER##### OR PLURALIT##### OR SHEET##### OR FILM### OR
STACK###) OR CMP OR CHEMICAL MECHANICAL POLISH

L3 2730 SEA ABB=ON PLU=ON (DUMMY OR VIRTUAL OR REPLICA##### OR
DUPLICAT#####) (3A) (PATTERN##### OR MASK#####)

L4 236905 SEA ABB=ON PLU=ON RECTANG### OR SQUAR### OR ORTHOGONAL

L5 8657 SEA ABB=ON PLU=ON (CENTER OR CENTRE OR MIDDLE OR HALFWAY OR
HALF WAY) (3A) (POINT##### OR POSITION##### OR LOCATION#####)

L6 5559 SEA ABB=ON PLU=ON (REDUC##### OR LOWER##### OR MINIMI#####
OR DECREAS#####) (3A) (CAPACITANCE OR REACTANCE OR INDUCTANCE)

L7 78016 SEA ABB=ON PLU=ON (REDUC##### OR LOWER##### OR MINIMI#####
OR DECREAS#####) (3A) (DENSIT##### OR MASS##### OR VOLUME OR
SPECIFIC GRAVIT#####)

L8 0 SEA ABB=ON PLU=ON L1 AND L2 AND L3 AND L4 AND L5 AND L6 AND
L7

L9 141 SEA ABB=ON PLU=ON L1 AND L2 AND L3

L10 4 SEA ABB=ON PLU=ON L9 AND L6

L11 2 SEA ABB=ON PLU=ON L9 AND L7

L12 2 SEA ABB=ON PLU=ON L9 AND L4

L13 0 SEA ABB=ON PLU=ON L9 AND L5
D L10 1-4 IBIB ABS

L14 2 SEA ABB=ON PLU=ON L11 NOT L10
D L14 1,2 IBIB ABS

L15 2 SEA ABB=ON PLU=ON L12 NOT (L10 OR L11)
D L15 1,2 IBIB ABS

FILE 'STNGUIDE' ENTERED AT 16:45:14 ON 22 DEC 2005

12/22/2005 3:41:33 PM

12/22/2005 3:58:57 PM

[File 324] German Patents Fulltext 1967-200549

[File 348] EUROPEAN PATENTS 1978-2005/Dec W02

[File 349] PCT FULLTEXT 1979-2005/UB=20051215,UT=20051208

Set	Items	Description
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S1 1065820 S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR PRINT?????()CIRCUIT()BOARD? ? OR CIRCUIT???()BOARD? ? OR LOAD()BOARD? ? OR LOADBOARD? ? OR LSI? ? OR ASIC? ? OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC? ? OR INTEGRAT?????()CIRCUIT??? OR CHIP? ? OR WAFER???

S2 187713 S (WIRE??? OR WIRING OR WIRE? ? OR LEAD? ? OR FLEX OR LINE? ?) (3N) (LAYER????? OR FILM????? OR COAT????? OR SHEET????? OR DEPOSIT????? OR LAMINA????? OR OVERLAY????? OR OVERLAY????? OR STACK????? OR MULTILAYER????? OR PLURALIT?????) OR CMP OR CHEMICAL()MECHANICAL()POLISH????

S3 65502 S (DUMM????? OR VITUAL????? OR REPLICA????? OR DUPLICATE????? OR MODEL????? OR COPI??? OR COPY????? OR SUBSTITUT????? OR CLON????? OR FAXSIMILE? ? OR REPRO????? OR ACTUAL????? OR REAL OR ORIGINAL?????) (3N) (PATTERN????? OR MESH????? OR LATTIC????? OR SCREEN????? OR TEMPLAT????? OR MASK????)

S4 1720320 S RECTANG????? OR ORTHOGONAL????? OR RIGHT()ANGLE?? OR RIGHTANGLE?? OR SQUAR????? OR PERPENDICULAR????? OR VERTICAL????? OR HORIZONT?????

S5 218003 S (CENTER? ? OR CENTRE? ? OR MIDDLE OR HALFWAY??? OR HALF()WAY????) (3N) (POINT????? OR TARGET????? OR LOCATION????? OR POSITION????? OR SPOT????) OR MIDPOINT????? OR MID()POINT??? OR MEDIAN OR MIDWAY? ? OR MID()WAY? ?

S6 14874 S (REDUC????? OR LOWER????? OR MINIMI????? OR ATTENUAT????? OR DECREAS?????) (3N) (CAPACITANCE? ? OR REACTANCE? ? OR INDUCTANCE? ?)

S7 164438 S (REDUC????? OR LOWER????? OR MINIMI????? OR ATTENUAT????? OR DECREAS?????) (3N) (DENSIT????? OR MASS????? OR VOLUME? ? OR RHO? ? OR SPECIFIC()GRAVIT????)

S8 1059016 S PERFORM????? OR EFFICIEN????? OR RELIAB???????

S9 254222 S (LENGTH????? OR DISTANC????? OR RANGE? ?) (3N) (CHANG????? OR IMPROV????? OR MODIF????? OR ADJUST?????)

S10 3474 S IC=(H01L-021/325 OR H01L-021/82 OR H01L-023/48)

S11 2 S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8 AND S9

S12 1 S S11 AND PY<=2003

S13 6 S S1 AND S2 AND S3 AND S6 AND S7 AND S8 AND S9

S14 0 S S13 AND S10

S15 4 S S13 AND PY<=2003

S16 3 S S15 NOT S12

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12/22/2005 3:06:13 PM

[File 344] Chinese Patents Abs Aug 1985-2005/May

[File 347] JAPIO Nov 1976-2005/Jul(Updated 051102)

[File 350] Derwent WPIX 1963-2005/UD,UM &UP=200581

[File 371] French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	2036846	S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR PRINT?????()CIRCUIT()BOARD? ? OR CIRCUIT???()BOARD? ? OR LOAD()BOARD? ? OR LOADBOARD? ? OR LSI? ? OR ASIC? ? OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC? ? OR INTEGRAT?????()CIRCUIT??? OR CHIP? ? OR WAFER???
S2	217968	S (WIRE??? OR WIRING OR WIRE? ? OR LEAD? ? OR FLEX OR LINE? ?)(3N) (LAYER????? OR FILM????? OR COAT????? OR SHEET????? OR DEPOSIT????? OR LAMINA??????? OR OVERLAY????? OR OVERLAY????? OR STACK????? OR MULTILAYER????? OR PLURALIT????? OR CMP OR CHEMICAL()MECHANICAL()POLISH????
S3	28216	S (DUMM????? OR VITUAL????? OR REPLICA????? OR DUPLICATE????? OR MODEL????? OR COPI??? OR COPY????? OR SUBSTITUT????? OR CLON????? OR FACSIMILE? ? OR REPRO????? OR ACTUAL????? OR REAL OR ORIGINAL?????)(3N) (PATTERN??? OR MESH??? OR LATTIC????? OR SCREEN????? OR TEMPLAT????? OR MASK????)
S4	2127700	S RECTANG????? OR ORTHOGONAL????? OR RIGHT()ANGLE?? OR RIGHTANGLE?? OR SQUAR????? OR PERPENDICULAR????? OR VERTICAL????? OR HORIZONT?????
S5	130013	S (CENTER? ? OR CENTRE? ? OR MIDDLE OR HALFWAY?? OR HALF()WAY????)(3N) (POINT????? OR TARGET????? OR LOCATION????? OR POSITION????? OR SPOT????? OR MIDPOINT????? OR MID()POINT?? OR MEDIAN OR MIDWAY? ? OR MID()WAY? ?
S6	19924	S (REDUC????? OR LOWER????? OR MINIMI????? OR ATTENUAT????? OR DECREAS?????)(3N) (CAPACITANCE? ? OR REACTANCE? ? OR INDUCTANCE? ?)
S7	79586	S (REDUC????? OR LOWER????? OR MINIMI????? OR ATTENUAT????? OR DECREAS?????)(3N) (DENSIT????? OR MASS????? OR VOLUME? ? OR RHO? ? OR SPECIFIC()GRAVIT????)
S8	2252217	S PERFORM????? OR EFFICIEN????? OR RELIAB???????
S9	109200	S (LENGTH????? OR DISTANC????? OR RANGE? ?)(3N) (CHANG????? OR IMPROV????? OR MODIF????? OR ADJUST?????)
S10	56761	S IC=(H01L-021/325 OR H01L-021/82 OR H01L-023/48)
S11	10228	S MC=(U11-C05D OR U11-D03C1)
S12	0	S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8 AND S9
S13	3	S S1 AND S2 AND S3 AND S5
S14	3	IDPAT (sorted in duplicate/non-duplicate order)
S15	2	IDPAT (primary/non-duplicate records only)
S16	14	S S1 AND S2 AND S3 AND S6
S17	2	S S16 AND S7
S18	5	S S16 AND S10
S19	1	S S16 AND S11
S20	2	S S2 AND S3 AND S4 AND S5
S21	3	S S1 AND S2 AND S3 AND S5
S22	2	S S1 AND S2 AND S3 AND S9
S23	1	S S1 AND S3 AND S6 AND S7 AND S8
S24	1	S S17 NOT S15
S25	3	S S18 NOT (S15 OR S17)
S26	0	S S19 NOT (S15 OR S17 OR S18)
S27	0	S S20 NOT (S15 OR S17 OR S18 OR S19)
S28	0	S S21 NOT (S15 OR S17 OR S18 OR S19 OR S20)
S29	1	S S22 NOT (S15 OR S17 OR S18 OR S19 OR S20 OR S21)
S30	0	S S23 NOT (S15 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22)

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[File 2] INSPEC 1898-2005/Dec W2
 [File 6] NTIS 1964-2005/Dec W2
 [File 8] Ei Compendex(R) 1970-2005/Dec W2
 [File 34] SciSearch(R) Cited Ref Sci 1990-2005/Dec W3
 [File 434] SciSearch(R) Cited Ref Sci 1974-1989/Dec
 [File 35] Dissertation Abs Online 1861-2005/Nov
 [File 65] Inside Conferences 1993-2005/Dec W3
 [File 94] JICST-EPlus 1985-2005/Oct W3
 [File 99] Wilson Appl. Sci & Tech Abs 1983-2005/Oct
 [File 144] Pascal 1973-2005/Dec W2
 [File 23] CSA Technology Research Database 1963-2005/Dec
 [File 103] Energy SciTec 1974-2005/Nov B1
 [File 95] TEME-Technology & Management 1989-2005/Nov W2
 [File 256] TecInfoSource 82-2005/Feb
 [File 239] Mathsci 1940-2005/Jan
 [File 68] Solid State & Superconductivity Abstracts 1966-2005/Dec
 [File 60] ANTE: Abstracts in New Tech & ENGINEER 1966-2005/NOV
 [File 293] Engineered Materials Abstracts 1966-2005/Dec

Set Items Description

S1 4143139 S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR
 PRINT?????()CIRCUIT()BOARD? ? OR CIRCUIT???()BOARD? ? OR LOAD()BOARD?.? OR LOADBOARD? ? OR LSI? ?
 OR ASIC? ? OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC? ? OR INTEGRAT???()CIRCUIT???
 OR CHIP? ? OR WAFER???

S2 173546 S (WIRE??? OR WIRING OR WIRE? ? OR LEAD? ? OR FLEX OR LINE? ?)(3N)(LAYER????? OR
 FILM????? OR COAT????? OR SHEET????? OR DEPOSIT????? OR LAMINA?????? OR OVERLAY????? OR OVERLAY????
 OR STACK????? OR MULTILAYER????? OR PLURALIT?????) OR CMP OR CHEMICAL()MECHANICAL()POLISH????

S3 247881 S (DUMM????? OR VITUAL????? OR REPLICA?????? OR DUPLICATE????? OR MODEL????? OR
 COPI??? OR COPY????? OR SUBSTITUT????? OR CLON????? OR FACSIMILE? ? OR REPRO?????? OR ACTUAL????
 OR REAL OR ORIGINAL?????)(3N)(PATTERN??? OR MESH??? OR LATTIC????? OR SCREEN????? OR
 TEMPLAT????? OR MASK?????)

S4 2945951 S RECTANG????? OR ORTHOGONAL????? OR RIGHT()ANGLE?? OR RIGHTANGLE?? OR SQUAR?????
 OR PERPENDICULAR????? OR VERTICAL????? OR HORIZONT?????

S5 376377 S (CENTER? ? OR CENTRE? ? OR MIDDLE OR HALFWAY??? OR HALF()WAY?????)(3N)(POINT????
 OR TARGET????? OR LOCATION????? OR POSITION????? OR SPOT?????) OR MIDPOINT????? OR MID()POINT??? OR
 MEDIAN OR MIDWAY? ? OR MID()WAY? ?

S6 16493 S (REDUC????? OR LOWER????? OR MINIMI????????? OR ATTENUAT????? OR
 DECREAS?????)(3N)(CAPACITANCE? ? OR REACTANCE? ? OR INDUCTANCE? ?)

S7 357673 S (REDUC????? OR LOWER????? OR MINIMI????????? OR ATTENUAT????? OR
 DECREAS?????)(3N)(DENSIT????? OR MASS????? OR VOLUME? ? OR RHO? ? OR SPECIFIC()GRAVIT?????)

S8 4867480 S PERFORM????? OR EFFICIEN????? OR RELIAB???????

S9 118432 S (LENGTH????? OR DISTANC????? OR RANGE? ?)(3N)(CHANG????? OR IMPROV????? OR
 MODIF??????? OR ADJUST?????)

S10 0 S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8 AND S9

S11 268 S S1 AND S2 AND S3

S12 0 S S11 AND S6 AND S7

S13 0 S S11 AND S6

S14 15 S S11 AND S7

S15 12 S S14 AND P \leq 2003

S16 6 RD (unique items)

S17 0 S S11 AND S4 AND S5

S18 28 S S11 AND S4

S19 0 S S18 AND S9

S20 0 S S18 AND S6

S21 0 S S18 AND S7

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S22 0 S S18 AND (MULTI()LAYER???? OR INTERLAYER???? OR INTER()LAYER????)
S23 17 S S18 AND PY<=2003
S24 12 RD (unique items)
S25 0 S S1 AND S2 AND S3 AND S6
S26 15 S S1 AND S2 AND S3 AND S7
S27 0 S S26 AND S8
S28 0 S S26 AND S9
S29 809 S S2 AND S3
S30 3 S S29 AND S6
S31 1 RD (unique items)
S32 1 S S1 AND S2 AND S3 AND S5
S33 12 S S24 NOT S16
S34 12 S S26 AND PY<=2003
S35 6 RD (unique items)
S36 0 S S35 NOT (S16 OR S24)
S37 1 S S31 NOT (S16 OR S24 OR S35)
S38 1 S S32 NOT (S16 OR S24 OR S31 OR S35)
S39 4 S S1 AND S3 AND S6
S40 3 RD (unique items)
S41 3 S S40 NOT (S16 AND S24 AND S31 AND S32 AND S35)